Text Mining

Task 1 & 2

Xiang Li

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Task 1

I choose My Doggie and Iby R.M.Ballantyne as the resource of my text analysis.My Doggie And Itells the story of John Mellon (almost a doctor in chapter one) and what happens to him after he meets a certain little canine. This story surrounds a child waif, a young woman, a young gentleman doctor, and an elderly lady. This tale unfolds the story of a bond that brings these unlikely friends together and merges their separate paths of life into one common path.

First, let us get a basic sense of most commoon word in the book.

Plot of most common words dumps - robin - rob

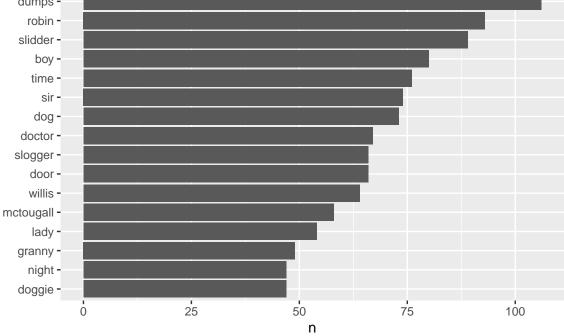


Figure 1: A visualization of the most common words

Task 2- Bag of Words Analysis

With several options for sentiment lexicons, we can use inner_join() to calculate the sentiment in different ways. Following the step in Textmining in R, I choose three general-purpose lexicons are $AFINN\ from\ Finn\ Arup\ Nielsen$, bing from Bing Liu and collaborators, and *nrc from Saif Mohammad and Peter Turney. and generat three plot which showed an estimate of the net sentiment (positive - negative) in each chunk of the novel text for each sentiment lexicon.

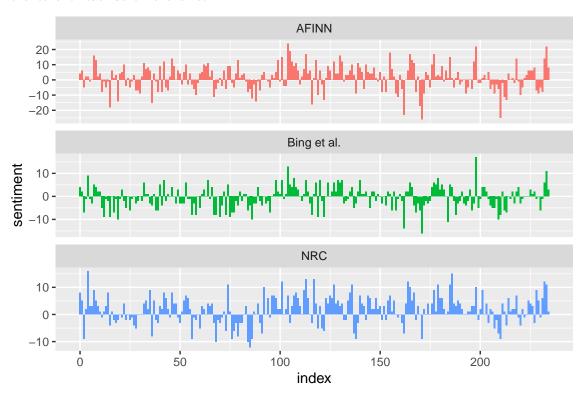
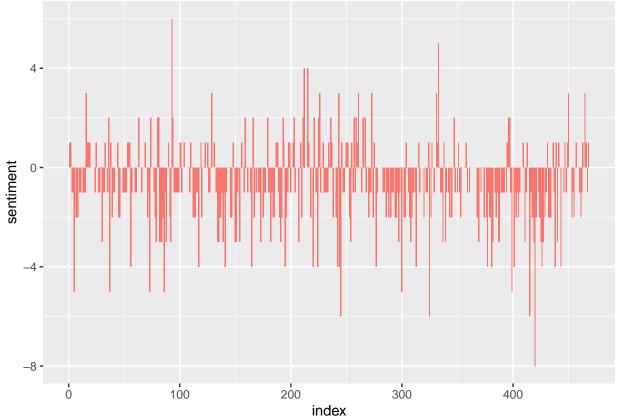


Figure 2: visualization of an estimate of the net sentiment (positive - negative) for each sentiment lexicon

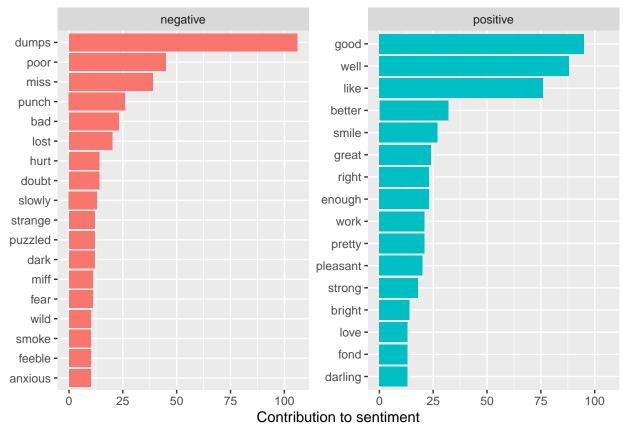
Discussion:

Task 2 Extra credit

The additional lexicons I found is that loughran. And here is the sentiment flow of the book.



Discussion:



looked strong street mellon window bin light entered burst tail em.corner nursery heart leave girl ■ W'en london >er wot punch hands bed arms d'youpretty sort sat manner mindpleasant hair stood call heard bad TOI hope told ah dolly family wery round home tone exclaimed brassey miss

negative

